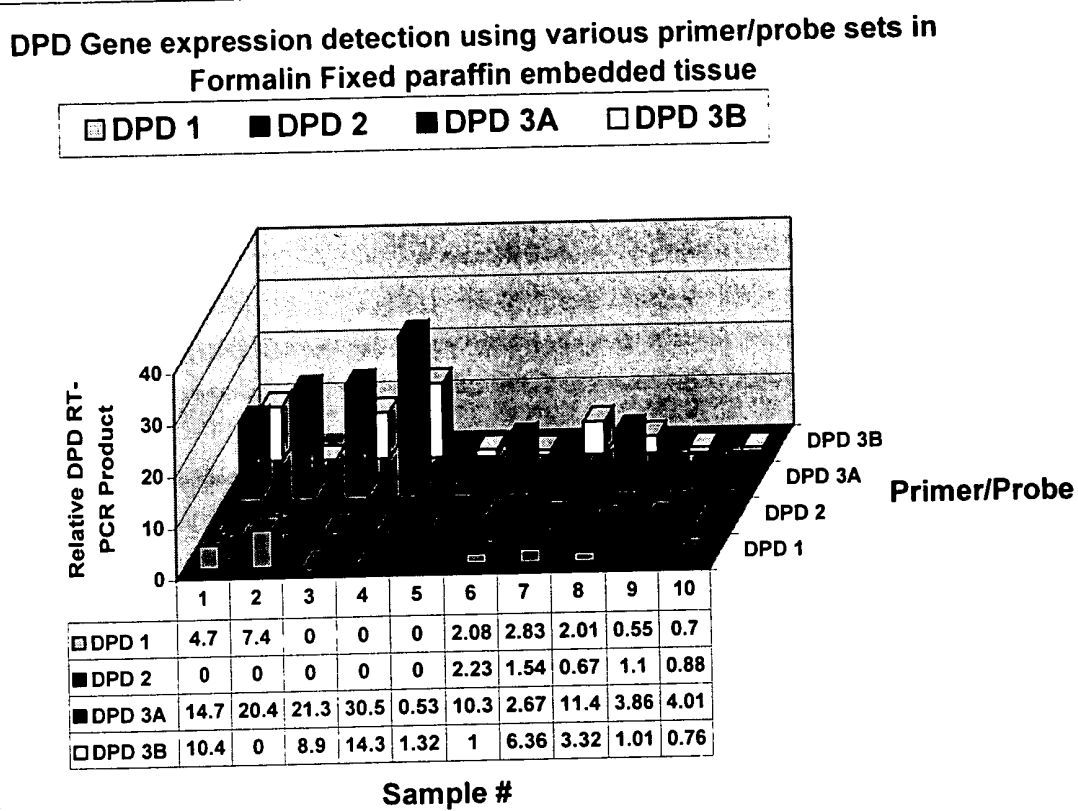
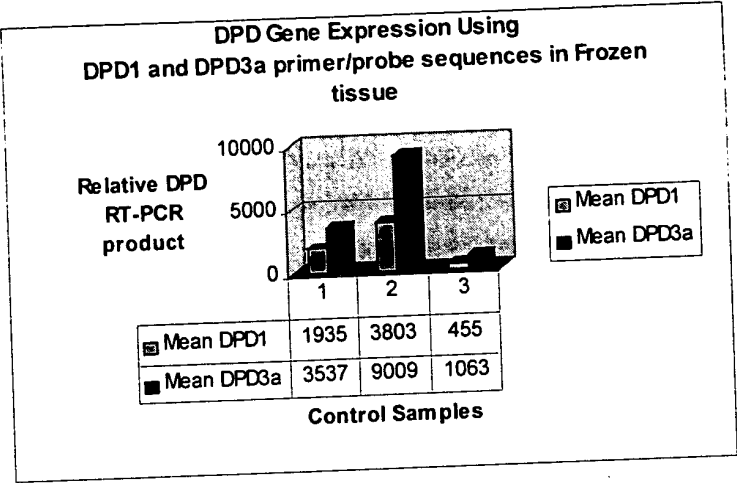


Fig. 1. Comparison of 4 DPD primer/probe sets for their ability to amplify DPD mRNA.



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Fig. 2. Comparison of amplification efficiency of primer/probe DPD 3A and DPD 1 to amplify DPD mRNA from frozen tissue.



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Figure 3. Chart illustrating how to calculate *DPD* expression relative to an internal control gene

|                     | from "test" reactions |                  |                      |              |                   | from "calibration" reactions |                      |              |                   | Uncorrected Gene Expression (UGE) | Published <i>DPD</i> values | Derivation of $K_{DPD}$ (average K) |           | Relative <i>DPD</i> exp. |
|---------------------|-----------------------|------------------|----------------------|--------------|-------------------|------------------------------|----------------------|--------------|-------------------|-----------------------------------|-----------------------------|-------------------------------------|-----------|--------------------------|
|                     | Sample                | $C_T$ <i>DPD</i> | $C_T$ $\beta$ -actin | $\Delta C_T$ | $2^{-\Delta C_T}$ | $C_T$ Calib. RNA             | $C_T$ $\beta$ -actin | $\Delta C_T$ | $2^{-\Delta C_T}$ |                                   |                             | K                                   | $K_{DPD}$ |                          |
| Experimental        | unknown 1             | 25.01            | 19.84                | 5.21         | 0.027             | -                            | -                    | -            | -                 | 4.47                              | -                           | -                                   | 1.08      | 4.83                     |
|                     | unknown 2             | 28.18            | 18.76                | 9.42         | 0.0015            | -                            | -                    | -            | -                 | 0.241                             | -                           | -                                   | 1.08      | 0.2608                   |
|                     | Calib. RNA            | -                | -                    | -            | -                 | 27.94                        | 26.92                | 19.55        | 7.37              | 0.006/0.006=1                     | -                           | -                                   | -         | -                        |
| From Published Data | L7                    | 31.04            | 24.56                | 6.49         | 0.0111            | -                            | -                    | -            | -                 | 2.45                              | 2.70                        | 1.10                                | 1.08      | -                        |
|                     | L91                   | 27.95            | 20.5                 | 7.45         | 0.0057            | -                            | -                    | -            | -                 | 1.26                              | 1.20                        | 1.08                                | 1.08      | -                        |
|                     | L121                  | 26.88            | 19.2                 | 7.68         | 0.00488           | -                            | -                    | -            | -                 | 1.07                              | 1.10                        | 1.02                                | 1.08      | -                        |
|                     | L150                  | 33.32            | 22.88                | 10.44        | 0.0072            | -                            | -                    | -            | -                 | 0.158                             | 0.17                        | 1.08                                | 1.08      | -                        |
|                     | L220                  | 26.96            | 22.01                | 4.95         | 0.03235           | -                            | -                    | -            | -                 | 7.12                              | 7.3                         | 1.03                                | 1.08      | -                        |
|                     | L164                  | 25.44            | 21.4                 | 4.04         | 0.0607            | -                            | -                    | -            | -                 | 13.38                             | 16                          | 1.2                                 | 1.08      | -                        |
|                     | Calib. RNA            | -                | -                    | -            | -                 | 27.88                        | 20.98                | 77.82        | 0.005             | 0.005/0.005=1                     | -                           | -                                   | -         | -                        |